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	Application No.	Applicant(s)	
Notice of Allowability	09/886,577	ROY, RICHARD S.	
	Examiner	Art Unit	
	Paul A Baker	2188	
The MAILING DATE of this communication application application application and All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8: NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED 5) or other appropriate comn RIGHTS. This application is	in this application. If not included nunication will be mailed in due course.	THIS initiative
1. \boxtimes This communication is responsive to <u>after final filed 22 S</u>	eptember 2004.		
2. The allowed claim(s) is/are <u>1-3,6-13 and 15-20</u> .			
3. \boxtimes The drawings filed on <u>21 June 2001</u> are accepted by the	Examiner.		
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ve been received. ve been received in Applicat	on No	ı the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to fi MENT of this application.	e a reply complying with the requiremen	its
5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi	mitted. Note the attached EXves reason(s) why the oath	AMINER'S AMENDMENT or NOTICE (or declaration is deficient.)F
6. CORRECTED DRAWINGS (as "replacement sheets") m	ust he submitted	`	
(a) ☐ including changes required by the Notice of Draftspe		ew (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	-		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		or in the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on	the drawings in the front (not the back) of	;
7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT	ERIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB	6. Interview	nformal Patent Application (PTO-152) Summary (PTO-413), ./Mail Date s Amendment/Comment	
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8 M Evaminar	s Statement of Reasons for Allowance	
of Biological Material	9. Other		

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DETAILED ACTION

Allowable Subject Matter

Claims 1-3,6-13 and 15-20 are allowed.

The following is an examiner's statement of reasons for allowance:

In regards to claim 1, none of the prior art of record discloses three levels of memory, each possessing data in and data out buffer blocks and a multiplexing circuit capable of tying the third level DOUT buffer block to the DIN buffer block of the first and second levels of memory for selectively loading data in a manner which substantially simultaneous relative to accessing the data in the third level. Specifically the examiner was unable to find in the prior art of record the structure claimed by claim 1 where data from the third level memory could be loaded into the first level memory (bypassing second level memory) within a clock cycle. Therefore claim 1 is found allowable over the prior art of record, given the claimed structure and method of operation.

Claims 2-3 and 6-10 are allowable as dependent upon claim 1.

The phrase "substantially simultaneous" had been deemed definite, since this phrase is given in the context of memory access time. Specifically "substantially simultaneous" has been interpreted as meaning "an operation which occurs in less than one memory clock cycle from the triggering event". In this context, the loading from 3rd

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level DOUT into either the 1st or 2nd DIN occurs less than one memory cycle after the accessing of the data in the third level memory.

In regards to claim 11, none of the prior art of record discloses the loading operation into the first level memory is triggered by an address calculated by an seperate address logic circuit in combination of the other specified claim limitations.

Claims 12,13,15-20 are allowable as dependent upon claim 11.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A Baker whose telephone number is (571)272-24203. The examiner can normally be reached on M-F 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (571)272-4210. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB

MANO PADMANABHAN SUPERVISORY PATENT EXAMINED

Mars Ramanashan